# UTAH PRAIRIE DOG OCCUPANCY AND HABITAT SURVEY PROTOCOL FOR FEDERAL SECTION 7 CONSULTATIONS





#### Introduction



Purpose: Determine if Utah prairie dogs inhabit, or ever have inhabited, a proposed project area.



#### Introduction



Why/What info are we trying to obtain?

- □ To be in compliance with the Endangered Species Act.
- Determine the status of Utah prairie dogs and their habitat in relation to a proposed project.
- Provide information necessary to devise and implement actions that will avoid and/or minimize impacts to Utah prairie dogs.

#### Introduction



#### Adaptability

- Our knowledge is continuously developing and changing.
- □ This protocol is a work in progress and will be modified as new information becomes available.
- Special conditions might dictate that surveys be conducted differently in rare instances.
- Any deviation from the approved survey protocol MUST be approved by Utah Ecological Services Field Office AND the Authorizing Federal Agency prior to survey activity.

#### Surveyor Qualifications

- □ All Surveyors must be certified.
- □ Certified = Successful completion of a USFWS approved UPD Training.
- □ Survey results from non-certified surveyors will not be used for assessing impacts to UPD's.

### Surveyor Qualifications

- Successfully complete training course every four years.
- Protocol changes may require early recertification.
- □ Must carry training cards when surveying.

This certifie	s that:
I. B. Tra	ynd
Completed the Utah Pra Team Training on M	
Larry Crist Utah Field Supervisor U.S. Fish and Wildlife Service	Certificate valid through May 2013

# **Pre-Survey Coordination**

Prior to conducting surveys Certified Surveyors must coordinate with the Authorizing Federal Agency







BLM, USFS, etc.

# **Authorizing Federal Agency**

- □ For projects on federal lands; the authorizing agency is the agency which administers the lands where the proposed project occurs and from whom a permit or other authorization is needed before the project may be implemented.
- □ Examples of Authorizing Federal Agencies: BLM, USFS, NPS

### **Authorizing Federal Agency**

- □ If the authorizing federal agency is not a land management agency, coordinate all survey details with the U.S. Fish and Wildlife Service.
- □ For projects on private lands with a federal nexus, the authorizing federal agency is the federal agency connected to the private lands action.

What's a Federal Nexus???
0?
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- D. A luxury sedan.

#### Federal Nexus:

A "federalized" project is one for which the agency has discretion to authorize or permit the action, or proposes to contribute substantial funds, equipment or staff to implement.

# To Determine Authorizing Agency:

#### Ask Yourself:

- 1. Does the project involve private, state, or federal lands?
- 2. Does the project have any federal funding or permits?
- 3. Is this a private or federally sponsored project?

#### What is an Action Area?

#### **ACTION AREA:**

- The entire right-of-way or exterior boundary of a proposed action plus the appropriate <u>Buffer Type:</u>
  - 350-foot buffer for projects that do not permanently alter habitat extending from the proposed project footprint.
  - ½ mile buffer for projects that may permanently alter or substantially impact habitat, or include surface occupancy, extending from the proposed project footprint.

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# What's my buffer?

The buffer type will be determined by the authorizing federal agency in coordination with the U.S. Fish and Wildlife Service.

# Action Area Example:



# How large of a buffer?





# Rules for Private Land Access:

#### □ Private Land Access:

- Written permission from the legal landowner or lessee is required to legally access privately owned lands.
- ☐ If access <u>cannot</u> be obtained to privately owned lands in the Action Area, the surveyor must use other accessible vantage points, optics, aerial photos, audio cues, other technology, and interviews of knowledgeable land managers and agency biologists to assess prairie dog occupancy and extent of suitable habitat.

#### Rules for Private Land Access:

#### ■ Private Land Access:

☐ If other survey methods are not available on inaccessible private lands or do not provide adequate data for the federal authorizing agency to make a conclusive decision concerning occupancy, then the inaccessible land in question must be assumed occupied by Utah prairie dogs.

# Summary/Key Points:

Prior to conducting surveys, certified surveyors must coordinate with the <u>authorizing federal agency</u> of the land parcel.

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- The two sizes of <u>project buffers</u>, based on project type, are 350' and ½ mile.

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- The <u>Action Area</u> is defined as "the entire right-of-way or exterior boundary of a proposed action plus the appropriate Buffer Type."
- The two sizes of <u>project buffers</u>, based on project type, are 350' and ½ mile
- If written permission from the legal landowner or lessee to access privately owned lands cannot be obtained to conduct a survey, the <u>area must be assumed to be occupied</u> by Utah prairie dogs.

# What must be surveyed?

The U.S Fish and Wildlife Service requires surveys of all suitable habitat within the historic range of the Utah prairie dog



# What must be surveyed?



# Surveys required within buffers; agency discretion outside of buffers (summer 2010 clarification) Blue line = historic range Green lines = county boundaries Green polygon = 5 mile buffer = high intensity surveys Purple polygon = 10 mile buffer = low intensity surveys

# What must be surveyed?

The U.S Fish and Wildlife Service requires surveys of all suitable habitat within the buffers



#### Suitable Habitat



Habitat capable of supporting Utah prairie dogs includes:

- grassland or low density sagebrush sites
- agricultural fields
- vacant lots
- other areas as identified by the authorizing Federal agency.

Habitat previously mapped by the Utah Division of Wildlife Resources/BLM/FS must be treated as suitable, (and must be surveyed) regardless of current vegetative status.

# Mapped habitat since 1976

#### Unsuitable Habitat



Unsuitable habitat is so obvious that it does not need to be surveyed or mentioned further.

FALSE

Any habitat that you think is unsuitable must be documented as to why (shrub canopy cover transects, soil survey data, etc) and must be mapped as unsuitable.

Otherwise, survey it!

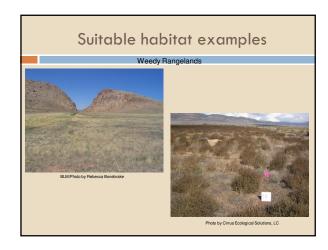
# Suitable habitat examples

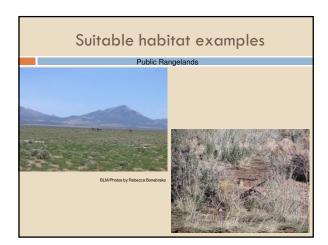
Sagebrush habitat/Public rangelands

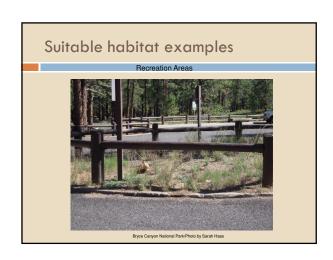


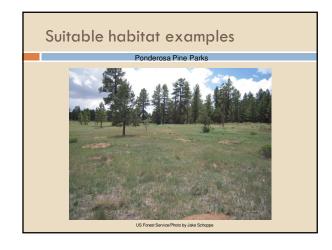


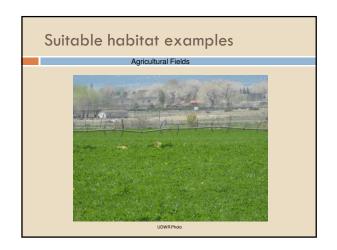


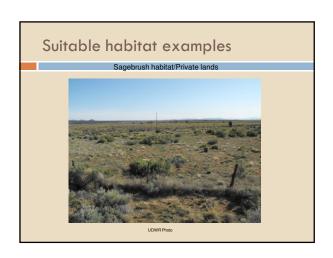


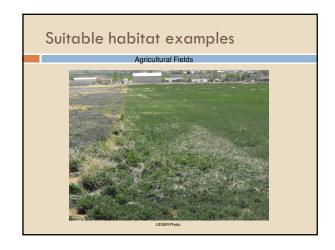


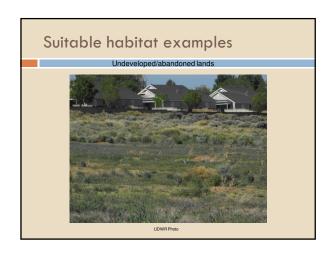


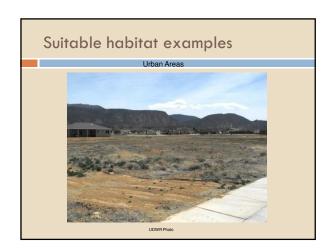












# Suitable habitat examples

Grassland/ Pasture/Private lands



# Survey Season

- □ Active Season April 1 through August 31 -Ground must be snow free.
- □ Dormant season September 1- March 31
  -Ground must be snow free.

The Authorizing Federal Agency will determine applicable season.

# **Dormant Season Surveys**

- □ When not to survey during dormant season?
  - □ Final decision to be made by the Authorizing Federal Agency
  - Site conditions may not be conducive to accurate and reliable dormant season surveys
    - Large project areas
    - Weather conditions: snow or mud
    - Presence of many burrows and/or species of burrowing mammals

S	ummary/Key Points:
1.	Previously mapped Utah prairie dog habitat needs to be surveyed, even if it doesn't look suitable anymore.

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- Utah prairie dogs occur in a variety of habitats, including colonization of areas in and among trees.

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- Previously mapped Utah prairie dog habitat needs to be surveyed, even if it doesn't look suitable anymore.
- Utah prairie dogs occur in a variety of habitats, including colonization of areas in and among trees.
- 3. Even if an area has been previously mapped by the Utah Division of Wildlife Resources as prairie dog habitat, you are required to survey for Utah prairie dogs.

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# Habitat Assessment Survey

This protocol will be applied to 100% of Suitable Habitat







#### How do I do this?



#### There are two types of surveys:

- (1) Low Intensity Level Surveys
- (2) High Intensity Level Surveys

#### How do I do this?



#### (1) Low Intensity Level Surveys:

- Surveys of suitable habitat that are intended to identify any previously unknown Utah prairie dog habitat areas.
- Generally conducted in locations ≥5 miles from any known and/or mapped Utah prairie dog habitat where previous surveys or professional knowledge of the local management biologists indicate that the likelihood of occupied prairie dog habitat is low.

# How do I do this?



#### (1) Low Intensity Level Surveys Methods:

- 1. 100% visual coverage All suitable habitat in the Action Area must be surveyed by foot and/or vehicle.
- 2. Aerial methods are not allowed.
- 3. Vehicle surveyors must:
  - stop every ½ mile (400 m), or more frequently
  - exit vehicle and scan surrounding areas, listen for vocalizations
  - scans should not attempt to clear more than 200m in either direction
  - The surveyor should spend a minimum of 5 minutes at each observation point

# For Example ... Example transect to walk 200m max for scan radius Example observation point Example observation point access road

# How do I do this?



#### (1) Low Intensity Level Surveys Methods:

If no Utah prairie dogs or their sign are observed within the entire Action Area, the results of the Low Intensity Level survey will be considered valid for two years from the following March 31

For Example: If a survey is completed May 15, 2012, the survey is valid until March 31, 2015

 If any Utah prairie dogs or their sign are observed anywhere within the Action Area during the Low Intensity Level Survey, then High Intensity Level Surveys will be required in those areas.

#### How do I do this?



#### (2) High Intensity Level Surveys:

- Surveys of suitable habitat intended to identify the extent of Utah prairie dog habitat in areas suspected of containing Utah prairie dogs.
- Generally conducted within <5 miles of known and/or mapped Utah prairie dog habitat areas where previous surveys or professional knowledge of the local management biologists indicate that occupied prairie dog habitat may occur.

#### How do I do this?



#### (2) High Intensity Level Surveys Methods:

- 1. All (100%) suitable habitat in the Action Area must be surveyed.
- 2. The surveyor must <u>walk</u> parallel transects no more than 30 meters apart through the entire area of suitable habitat searching 15m on both sides of the transect for burrows and other prairie dog sign. Surveyors must <u>walk</u> transects using a compass or GPS unit for orientation, ensuring that all suitable habitat within the entire action area is adequately surveyed. Care must be taken as to not trample burrows.

#### How do I do this?



#### (2) High Intensity Level Surveys Methods:

- Surveyors must stop periodically and scan surrounding areas with suitable optics for the presence of prairie dogs. The surveyor must also listen for Utah prairie dog vocalizations throughout the survey to locate prairie dogs.
- 4. The results of the High Intensity Level survey are only valid from the date conducted through to the following March 31  $\,$

For Example: If a survey is completed May 15, 2012, the survey is valid until March 31, 2013  $\,$ 

If a project is not implemented until after the following March 31, and/or if there are gaps in construction activity within the same year (generally one week or more), new surveys may be required.

#### **UPD** Habitat Classification

Portions of suitable habitat that support Utah prairie dog burrows, mounds or other sign of the presence (past or recent) of Utah prairie dogs are considered "Utah prairie dog habitat".

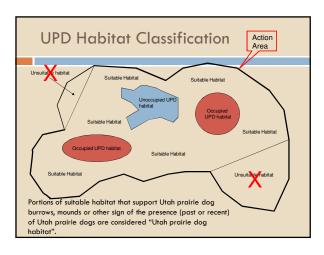


#### **UPD** Habitat Classification

Utah prairie dog habitat will be classified as unoccupied or occupied.

Unoccupied = evidence that Utah prairie dogs once occupied the site, but no conclusive evidence of current occupancy (No time frame is specified)

Occupied = evidence of current occupancy



Unoccupied Utah Prairie Dog Habitat	
Active Season:  Functional Utah prairie dog burrows or mound systems are found but there is no evidence of prairie dogs = No Utah prairie dogs seen or heard, no fresh digging, no scat or tracks  OR  Utah prairie dog burrows are found but are not Functional	
Unoccupied Utah Prairie Dog Habitat	
Dormant Season:  Because Utah prairie dogs hibernate, the "Unoccupied" habitat classification cannot be applied to dormant season surveys.  Any Utah prairie dog burrows found (functional or not functional), or any evidence of a prairie dog	
mound system, must be documented and will be assumed to be occupied.	
Occupied Utah Prairie Dog Habitat	
Active Season:  Utah prairie dogs are seen or heard	
OR  Functional Utah prairie dog burrows are found and show evidence of recent prairie dog activity (fresh	

digging, scat, fresh tracks).

#### **Occupied Utah Prairie Dog Habitat**

#### **Dormant Season:**

 Utah prairie dog burrows (functional or not functional) or mound systems are found, even if no other signs of Utah prairie dogs are present.

In other words, any area with Utah prairie dog sign must be classified as occupied during the Dormant Season.

#### **Functional Burrow Definition**

- Functional burrow: Any Utah prairie dog burrow that is structurally suitable to house Utah prairie dogs (entirely open, partially filled with dirt, or open but blocked by sticks, weeds, cobwebs, or other debris).
- □ Burrows that are less than 3" in diameter are not considered potential prairie dog burrows.

#### **Occupied Habitat/Functional Burrow**



Shows recent activity



(Occupied Habitat/Active Season)

#### **Occupied Habitat/Functional Burrow**





(Occupied Habitat/Active Season

#### **Functional Burrow Definition cont.**

□ Whenever a surveyor is uncertain of the species of origin when identifying burrows or mounds, they MUST err on the side of the Utah prairie dog and report the site. Follow-up visits may be made at any time by the U.S. Fish and Wildlife Service, Utah Division of Wildlife Resources, and/or the Authorizing Federal Agency to verify the species.



#### **Functional Burrow Definition cont.**

The species of origin (the species that originally dug the burrow or created the mound) and the current occupant of the burrow may not be the same.



# **Occupied Utah Prairie Dog Habitat**

#### Active Season:

- □ Utah prairie dogs are seen or heard
- $\hfill\Box$  Functional Utah prairie dog burrows are found and show evidence of recent prairie dog activity (fresh digging, scat, fresh tracks).

# **Occupied Utah Prairie Dog Habitat**

Evidence of recent prairie dog activity (fresh digging, scat, fresh tracks).



#### **Occupied Utah Prairie Dog Habitat**

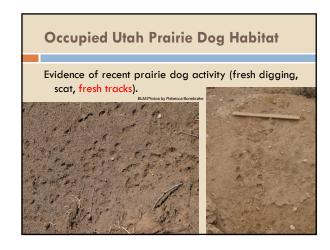
Evidence of recent prairie dog activity (fresh digging, scat, fresh tracks).





# Cocupied Utah Prairie Dog Habitat Evidence of recent prairie dog activity (fresh digging, scat, fresh tracks). BLANTPHOLES by Reference Bonnetrate Break scat open to determine freshness

# Cocupied Utah Prairie Dog Habitat Evidence of recent prairie dog activity (fresh digging, scat, fresh tracks). BLAN Protos by Rebeck Bonebrake Not all burrows will have scat!



# Occupied Utah Prairie Dog Habitat Evidence of recent prairie dog activity (fresh digging, scat, fresh tracks). UDWRPhotoby Adam Kavalunus

# Functional Burrow



Dormant Season: Occupied



Active Season: is there fresh sign? Yes, then occupied

# **Mound System:**

- A mound is the pile of earth, gravel, sand, rocks, or debris associated with making a burrow hole in the ground.
- A Utah prairie dog mound system is identified as 3 or more prairie dog mounds clustered within a 10m diameter space.
- If any evidence of a Utah prairie dog mound system is found, the area must be mapped and reported as Utah prairie dog habitat.

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- □ Whenever a surveyor is uncertain of the species of origin when identifying burrows or mounds, they MUST err on the side of the Utah prairie dog and report the site.
- □ Follow-up visits may be made at any time by the USFWS, UDWR, and/or the Authorizing Federal Agency to verify the species.
- □ Note: The species of origin (the species that originally dug the burrow or created the mound) and the current occupant of the burrow may not be the same.

# **Mound System:**



# **Summary/Key Points:**

With High Level Intensity Surveys, all (100%) suitable habitat in the Action Area must be surveyed, the surveyor must walk parallel transects no more than 30 meters apart through the entire area of suitable habitat searching 15m on both sides of the transect for burrows and other prairie dog sign, and surveyors must stop periodically and scan surrounding areas with suitable optics for the presence of prairie dogs.

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- 2. Utah prairie dog habitat, found during a Section 7 protocol level survey, is <u>classified as either "occupied" or</u> "unoccupied."

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- 2. Utah prairie dog habitat, found during a Section 7 protocol level survey, is <u>classified as either "occupied" or</u> <u>"unoccupied."</u>
- Surveyors only need to map occupied and unoccupied Utah prairie dog habitat.

# **Summary/Key Points (cont):**

 Suitable and unsuitable habitat <u>cannot always be</u> <u>determined from aerial photos</u>.

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- 5. Utah prairie dog habitat <u>cannot be classified as</u> <u>"unoccupied" during the dormant season.</u>

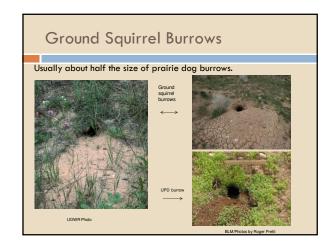
# **Summary/Key Points (cont):**

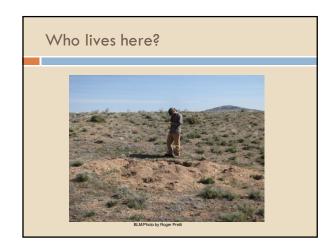
- Suitable and unsuitable habitat <u>cannot always be</u> <u>determined from aerial photos</u>.
- 5. Utah prairie dog habitat <u>cannot be classified as</u> <u>"unoccupied" during the dormant season.</u>
- During the active season, it is not necessary to <u>see</u> a Utah prairie dog in order to determine whether or not an area is occupied Utah prairie dog habitat.

# Other wildlife one might see

Ground squirrels:
roughly half the size,
and usually grayish in
color, calls are higher
pitched than prairie
dogs, usually more
timid in nature,
typically do not create
well established
mounds



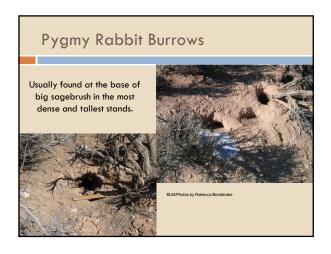




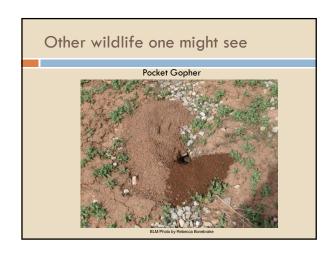


# Other wildlife one might see Burrowing Owls – can be found in occupied or unoccupied colonies BLMCoder City Fled Office photo

# Other wildlife one might see Pygmy rabbit: smallest rabbit in North America. UDWR/Photo by Lynn Chamberlain









# Other wildlife one might see Black Widow Spider

# Other wildlife one might see

You will likely see many burrows. Remember, single or isolated burrows are not "Utah prairie dog habitat".



#### **UPD** Counts

#### □ Parameters

- -Ground is snow free
- -Calm/sunny day, <40% cloud cover
- -Winds <3 (12mph) on Beaufort scale
- -Avoid extremes of heat and cold
- -Between 8:00am and 6:00pm

UPD Count Techniques
Count from an unobstructed vantage point
<ul><li>Count from multiple vantage points if needed.</li><li>Binoculars, spotting scopes, vocalizations</li></ul>
□ Take care not to overlap counts
□ Count minimum of 3 times, recording highest count.
UPD Count Techniques
<ul> <li>Avoid disturbing UPD's if possible</li> </ul>
<ul> <li>Habituated UPDs will often re-surface after initial</li> </ul>
disturbance
<ul> <li>Non-habituated UPD's – approach cautiously, count immediately, re-count, move closer</li> </ul>
UPD Habitat Mapping
<ul> <li>The surveyor must determine the perimeter of all Utah prairie dog habitat encountered, whether occupied or unoccupied. The</li> </ul>
perimeter burrow locations will be used to define the
boundary of all Utah prairie dog habitat polygons. The surveyor shall assign each Utah prairie dog habitat polygon a
unique Polygon ID # (see glossary).
All data pertaining to a polygon and recorded on the Survey
Data Form and subsequent GIS attribute data will be referenced by its unique Polygon ID#.

# **UPD** Habitat Mapping

 All survey results will be provided to the authorizing agency as an ESRI compatible product (shapefile or personal Geodatabase) in NAD 1983 UTM Zone 12 North datum.
 Spatial data must be attributed in a table (see Table 1 for example attribute table) and include metadata following ESRI standards.

# **UPD** Habitat Mapping

- What to map
  - All Utah prairie dog habitat, occupied or unoccupied.
- □ How to map
  - With your GPS unit set in polygon mode, circumscribe the habitat unit by walking around the perimeter burrows.

OR

Record point locations for each perimeter burrow and create a polygon therefrom.

# Unsuitable habitat Suitable Habitat Unccupied UPD habitat Suitable Habitat Unsuitable Habitat Unsuitable habitat

# **UPD** Habitat Mapping

- □ Required data
  - Unique Polygon ID Numbers
  - Attribute Tables
  - GIS data in NAD 1983 UTM Zone 12 North datum
  - Metadata
  - Remember to coordinate with the Authorizing Federal Agency!

# Data & Report Submission

- □ Survey data must be provided:
  - □ in the approved format
  - within an appropriate timeframe
- □ The authorizing federal agency:
  - may accept, reject, or ask for additional information\*
  - will coordinate results with USFWS

\*Results can be subject to validation by the USFWS and/or Authorizing Federal Agency

# Data & Report Submission



- Complete data/report submission includes:
  - a <u>written report</u> summarizing methodology and results
  - completed survey forms, maps and geospatial data
  - clear indication where low vs high intensity level survey performed
  - clear indication where vehicle vs foot survey performed within low intensity survey areas
  - clear indication of the <u>action area</u>, <u>all suitable habitat</u> that was surveyed, and the <u>presence of all Utah prairie habitat areas</u> (occupied and unoccupied)

# Data & Report Submission



- Complete data/report submission includes:
  - both <u>positive</u> and <u>negative</u> survey results:
    - Negative data = all areas in the Action Area that were determined to be unsuitable habitat; and suitable habitat that was surveyed but showed no evidence of Utah prairie dogs or their burrows.
    - Survey forms submitted with negative data only need the top portion of the form completed.

# Here it is...the Data Sheet!

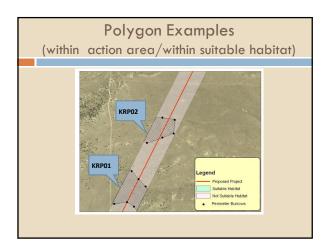


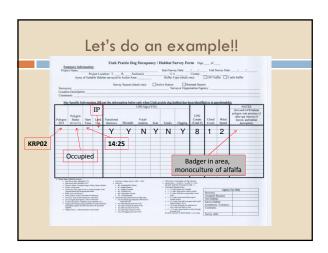
#### **Useful Definitions:**

The Polygon ID number is a unique identifier for each Utah prairie dog habitat polygon that is defined by the surveyor and provides a means to link the spatial data of that polygon with the data captured on the survey form.

Polygon Status indicates whether Utah prairie dog habitat polygons are classified as occupied or unoccupied.

	Pol	ygon	shape	efile	
		, 0			
Polygon ID#	Surveyor	Land Use	Status	Total # of UPDs	Date of Survey
KRP01	J. Cliff; S. Rubt	US	Unoccupied	0	5/18/201
KRP02	S. Liner; B. Box	RP	Occupied	8	5/18/201
KRP03	J. Cliff; K. Kirken	DC	Occupied	14	5/18/201
KRP04	K. Kirken; B. Box	IP	Unoccupied	0	5/18/201
KRP05	S. Liner; B. Box	IC	Unoccupied	0	5/18/201
KRP06	S. Liner; B. Box	BG	Unoccupied	0	5/19/201
KRP07	B. Box: R. Sunner	US	Unoccupied	0	5/19/201





Hints for Data Sheet Success!	
Tillis for Bara Sileer Success:	
Buffer Type: Consult with the Authorizing Federal Agency UTM coordinates are in NAD 83 UTM Zone 12 North:	
E = Easting, 6 digits  N = Northing, 7 digits	
Survey Seasons:  Active Season = April 1 - August 31  Dormant Season = September 1 - March 31	
□ Start Time - use military time (i.e. 0900, 1600)	
UPD Counts = Number of prairie dogs observed: boys and girls, big and small! Other Species: burrowing owl, pygmy rabbit, other or unknown DO NOT SURVEY IF CLOUD COVER >40%	
DO NOT SURVEY IF WIND SPEED >12 mph	
Summary/Key Points:	
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# Enjoy your surveys!!



Any Questions?